Suggested Courses for Pre-engineering Majors (AST2) For Transfer to Washington State University, Pullman Campus

Sections in this document refer to sections of the AST2 degree program found at:
http://www.sbctc.edu/college/_e-transferassocinscience.aspx

Note: Please consult with an academic advisor to determine which of the following courses are appropriate for AST2 degree completion in your particular area of interest.

**Core Courses required for AST2:**

**A. Communication Skills**
ENGL& 101  English Composition I

**B. Mathematics**
MATH& 151  Calculus I
MATH& 152  Calculus II

**C. Humanities and Social Science**
ECON& 202  Macro Economics
ANTH& 100  Survey of Anthropology
Additional Humanities Elective [H]

**D. Pre-major Program**
MATH& 153  Calculus III
PHYS& 221  Engineering Physics I w/Lab
PHYS& 222  Engineering Physics II w/Lab
PHYS& 223  Engineering Physics III w/Lab
CHEM& 161  General Chemistry I w/ Lab

**E. Remaining Credits**

Pathways described below correspond to the major related pathways (MRPs) defined at:
http://www.sbctc.edu/docs/education/transfer/2008-as-t_track2_engr_compsci_physics_atmossci.pdf

**Elective Requirements for All Pathways (10 credits recommended for all pathways):**
MATH& 254  Calculus IV
MATH 238  Differential Equations

**BIO and CHEM E Pathway:**
CHEM& 162  General Chemistry II w/ Lab
CHEM& 163  General Chemistry III w/ Lab

BIOL& 211  Majors Cellular (for BE pathway)

MATH 220  Linear Algebra (for BE Pathway)
**Comp E and EE Pathway:**

- CHEM& 162 General Chemistry II w/ Lab
- MATH 220 Linear Algebra
- ENGR& 214 Statics (for EE pathway)

CS 131 Computer Science I C++ *

* CS 131 provides good background preparation for WSU computer science classes, but is not transferrable for credit. Check with a WSU academic advisor for more info.

**Mechanical, Civil, Materials Science, and Other Engineering Pathway (select at least 25 credits from this list):**

- MATH 220 Linear Algebra
- BIOL& 260 Microbiology (for CE pathway)
- CHEM& 162 General Chemistry II w/ Lab
- CHEM& 163 General Chemistry III w/ Lab (for MSE pathway)
- CS 141 Computer Science I JAVA (for MSE and ME pathways)
- ENGR& 214 Statics
- ENGR& 225 Mechanics of Materials
- CMST& 220 Public Speaking (for CE pathway)*

*(Only one of CMST& 220 or needed for CE pathway, may also fulfill requirement in section C)*

This document is accurate as of February 26, 2016. The latest version can be found at [www.cea.wsu.edu/transferstudents](http://www.cea.wsu.edu/transferstudents)

For general questions about this document or to report an error, please contact Kasey Schertenleib at kasey@wsu.edu or 509-335-6613.
Advantages of the AST2 Degree When Transferring to WSU

- Courses designated [H]-Humanities and [S]-Social Science by your Community College are accepted as [HUM] and [SSCI] by WSU.
- [BIOL]-Biological Science UCORE Requirement is waived by WSU if your degree program does not require Biology.

WSU Writing Portfolio

At WSU, completion of the Junior Writing Portfolio is a General Education Requirement for graduation. Transfer students entering with 60 or more credits must initiate the Junior Writing Portfolio by the end of their first semester at WSU. To this end, you should save examples of writing from coursework completed at your Community College. Instructor sign-off is required. For more information, please visit:

[www.writingprogram.wsu.edu/unitws/writingassessment/midcollege/writingportfolio/](http://www.writingprogram.wsu.edu/unitws/writingassessment/midcollege/writingportfolio/)

Alternative Options for Obtaining WSU Engineering Credits

- Check with neighboring Colleges to see if alternative engineering electives are available which are transferable to WSU.
- Consider enrolling in a distance education course through Washington Online. [http://www.waol.org](http://www.waol.org)
- Consider enrolling in WSU Summer Session courses prior to Fall enrollment. [http://www.summer.wsu.edu/](http://www.summer.wsu.edu/)

For specific questions regarding transfer equivalencies, please contact one of the WSU academic coordinators listed below:

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School of Electrical Engineering and Computer Science
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School of Mechanical and Materials Engineering
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